

Properties of Logarithms

Write the property of logarithms that each equation demonstrates.

1) $\log_3 8 + \log_3 11 = \log_3 88$

2) $\log_4 14 - \log_4 7 = \log_4 2$

3)

Preview

5)

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7) Which property of logarithms does this equation demonstrate $\log_2 5^3 = 3 \log_2 5$?

a) Quotient Property

b) Product Property

c) Power Property

8) Which property of logarithms does this equation demonstrate $\log 9 - \log 7 = \log \left(\frac{9}{7} \right)$?

a) Power Property

b) Quotient Property

c) Product Property